RADIATION SAFETY ACT 1975

CONDITIONS, RESTRICTIONS AND LIMITATIONS (SECTION 36)

GAUGES - LOGGING

1. This Registration provides for the possession and use of the specified radioactive sources designed and used for bore hole or well logging only.

2. Field sites at other locations are deemed to be part of the registered premises and the registrant shall continue to be responsible for all radioactive sources and procedures at those locations as if they were the principal registered premises.

3. The registrant is directed to ensure that —
   
   3.1 the possession and use of radioactive substances complies with the requirements of the Code of Practice for the Safe Use of Sealed Radioactive Sources in Bore Hole Logging (1989) issued by the National Health & Medical Research Council;
   
   3.2 radioactive substances are only released to persons holding a licence for bore hole or well logging procedures and that they are used only by a licensee, or by persons working under the direction and immediate personal supervision of a licensee;
   
   3.3 each licensee who uses radioactive sources with activities greater than

   \[
   \begin{align*}
   75 \text{ GBq} & \quad ^{241}\text{Am} \\
   10 \text{ GBq} & \quad ^{137}\text{Cs} \\
   6 \text{ GBq} & \quad ^{60}\text{Co}
   \end{align*}
   \]

   is assisted by a second licensee or by a person who has received training in basic radiation safety and who, in an emergency can safely return the radioactive sources to their shielded condition;
   
   3.4 appropriate source handling tools and a correctly functioning and calibrated analogue radiation survey rate meter are handed to each licensee when the licensee takes possession of the radioactive sources from the Registrant, and

   3.4.1 each survey meter shall be submitted to the Radiation Health Section (Health Department of Western Australia) for calibration when first obtained, and at 12 monthly intervals thereafter, or immediately after any modifications or repair;
   
   3.5 a register of the radioactive sources in the possession of the registrant is maintained and a record is kept in this register of the movement of sources from the premises; such records to include the date, type, activity and identification number of the source(s), and the name and signature of the licensee taking possession;
   
   3.6 radioactive sources are stored in compliance with Regulation 30 of the Radiation Safety (General) Regulations 1983. In field work, where sources may be stored in the logging vehicle, the security of the sources on the vehicle shall be ensured by the use of keyed locks on the storage racks or slots and the vehicle itself shall be locked and parked in a secure area remote from occupied areas and in compliance with Regulation 30;
   
   3.7 where logging procedures are carried out at night and where warning signs and perimeter barriers may not be visible, the vehicle shall carry a flashing light, or such a light shall be available to be placed near the logging site, to be illuminated during the logging procedures;
   
   3.8 the Radiological Council is informed immediately in the event of a lost source or of a source becoming jammed in a bore hole and where its removal may risk damage to the source
encapsulation;

3.9 where a source is irretrievably lost in a bore hole, written notification is given to the owner and/or operator of the bore hole that—

3.9.1 the source is to be cemented in situ;

3.9.2 the location of the source is to be documented for its records; and

3.9.3 no further drilling in the immediate vicinity of the source that risks intersecting with the source is permitted by the Council;

3.10 where a source is abandoned in a land-based bore hole, a permanent warning plaque is fixed securely to the surface of the bore hole showing the —

3.10.1 name of the responsible company (the owner and/or operator);

3.10.2 well identification;

3.10.3 radiation warning symbol and the words CAUTION - ABANDONED RADIOACTIVE SOURCE. CONTACT THE RADIOLOGICAL COUNCIL BEFORE WORKING ON THIS WELL;

3.10.4 name and activity of the radioactive material;

3.10.5 date of abandonment;

3.10.6 depth to the source and to the top of the cement plug.

3.11 each person who may be occupationally exposed to radiation is issued with a personal radiation monitoring device to record their cumulative radiation dose, and that —

3.11.1 each monitoring device is used only by the person to whom it was issued;

3.11.2 the device(s) are returned for assessment at the intervals prescribed by the Council (presently 12 weeks);

3.11.3 continuing records are maintained of all personnel monitoring, and

3.11.4 the results of this monitoring are made available to the individuals concerned at their request;

3.11 wipe tests of the source assembly are performed at 12 monthly intervals in a manner approved by the Council and analysed by a recognised facility.

NOTES:

“immediate personal supervision” requires the licensee to be present and maintain direct and continuous supervision of any person under the licensee’s direction.

CONDITION NO:  60

CERTIFICATE NO:  RS

EXPIRES ON: